

Method of Payment

Pre-registration is required by mail or fax.

- ☐ Check or money order enclosed (payable to buyCASTINGS):

- ☐ Workshop Fee: \$95 X #___ = \$___
☐ Dinner: \$25 X #___ = \$___

Process Heating Optimization
Training Registration/ buyCASTINGS
3155 Research Blvd. Suite 103
Dayton, OH 45420
937-259-1317

- ☐ Fax in credit card registrations to:
Fax: (309) 417-9165

- ☐ Credit card: (Your card will be charged for above fee by buyCASTINGS)

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Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

U.S. Department of Energy
Energy Efficiency and Renewable Energy
1000 Independence Ave., S.W.
Washington, D.C. 20585

Seminar

Process Heating Systems Optimization for
casting heat treating and forging operations

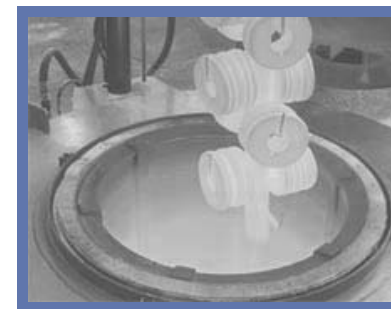
Monday, March 8, 2004

Cincinnati, OH



Process Heating Systems Optimization

industrial training workshop



For Foundries, Forging Shops,
Heat-Treaters, and Other Industries
Using Heating Systems

Cincinnati, OH

March 8, 2004

Sponsored by: Southwest Ohio Chapter of American Foundry Society, Energy Industries of Ohio, Edison Materials Technology Center, and Ohio Cast Metals Association (OCMA)



U.S. Department of Energy
Energy Efficiency and Renewable Energy
*Bringing you a prosperous future where energy is clean, abundant,
reliable, and affordable*

Overview

The U.S. Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy and the Industrial Heating Equipment Association (IHEA) are pleased to offer the *Process Heating Systems Optimization* workshop. Attendees of the one-day workshop will learn:

- How to improve energy efficiency and reduce emissions from furnaces
- Practical tips on process heating equipment operations and maintenance
- How to use PHAST software to assess energy consumption in furnace components

This workshop includes an introduction to process heating and process heating equipment (e.g. furnaces, ovens, dryers, heaters, kilns, etc.) used by industry. The workshop will also address combustion and other heating methods, heat transfer in furnaces, heat containment, waste heat recovery, commonly used process heating controls, and emission reduction related to process heating.

Attendees will also learn how to use the Process Heating Assessment and Survey Tool (PHAST). PHAST can survey furnaces, identify major energy using equipment, prioritize improvement opportunities, and assess available methods that can be used to reduce energy consumption in an industrial plant. **Specific emphasis will be paid to process heating used in metal casting, forging, and heat treating.**

Sponsors

- Southwest Ohio Chapter of American Foundry Society (AFS)
- Energy Industries of Ohio (EIO)
- Edison Materials Technology Center (EMTEC)
- Ohio Cast Metals Association (OCMA)

Optimize your process heating systems and reduce energy costs...

Agenda

8:30 - 10:00 Registration and Displays

10:00 - 12:30 Morning Session

- Process heating – introduction and basics
- Efficiency improvement for heat generation (combustion and other heat sources)
- Heat transfer in furnaces – heating equipment
- Heat containment and waste heat recovery

12:30 - 1:30 Lunch and Displays Open

1:30 - 5:00 Afternoon Session

- Controls for process heating systems
- Emission (NOx, VOCs, etc.) reduction for process heating equipment
- Overview of PHAST software
- Demonstration and use of PHAST
- Questions and answers

5:30 Cocktails (Cash Bar) and Displays Open

6:30 Dinner/ Presentation by Energy Industries of Ohio

Instructor

Your PHAST instructor will be Dr. Arvind C. Thekdi, President of E3M, Inc. Dr. Thekdi has over 30 years of experience in design and development of furnaces used in all major industries. His area of expertise includes design and application of combustion and heating systems, waste recovery systems, emissions (NOx) reduction systems, and use of combined heat and power systems for process heating applications.

Registration Form

☐ Please register me for the *Process Heating Systems Optimization* workshop on March 8, 2004, at RAFFEL's, 10160 Reading Rd., Cincinnati, OH 45241
Call 937-259-1317 for more information.

First Name

Last Name

Company Name

Street Address

City

State

Zip

Phone

Fax

Email Address

Registration Fee:

- ☐ \$95 - Workshop including lunch and refreshments
- ☐ \$25 - Dinner

Hotel Accomodations can be made at:

WINGATE
4370 Glendale / Milford
Blue Ash, OH 45242
P: (513)733-1142